UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/695,684	10/24/2000	Janne Kari	460-007649-US	1424

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EXAMINER
COLBERT, ELLA

ART UNIT	PAPER NUMBER
3624	

DATE MAILED: 12/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)
Office Action Summary	09/695,684	KARI ET AL.
	Examiner	Art Unit	
	Ella Colbert	3624	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on <u>09 September 2004</u>.

2a) ☐ This action is **FINAL**.   2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) <u>1-24</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) <u>1-24</u> is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some * c) ☐ None of:

      1. ☐ Certified copies of the priority documents have been received.

      2. ☐ Certified copies of the priority documents have been received in Application No. _____.

      3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: _____.

DETAILED ACTION

1.   Claims 1-24 are pending. Claims 1-24 have been amended and claims 25-30

have been added in this communication filed 09/09/04 entered as Amendment.

2.   The 35 U.S.C. 112, second paragraph rejection of claims 1-24 has been

overcome by the amendment to claims 1-24 and is hereby withdrawn.

3.   The 35 USC 101 rejection of claims 1-11 has been overcome by the amendment

to claims 1-11 and is hereby withdrawn.

4.   The claim objection to claims 14 and 15 has been overcome by the amendment

to claims 14 and 15 and is hereby withdrawn.

Election by Original Presentation

5.   Newly submitted claims 25-30 directed to an invention that is independent or

distinct from the invention originally claimed for the following reasons: the originally filed

claims 1-24 are directed to sending an information query, receiving and processing the

information query, searching and transmitting the information, receiving and displaying

the information, using one or several available servers to search the information,

sending the information, routing the information query and new claim 24 is directed to

running a browser application program, receiving information, providing information,

retrieving and transmitting the information, adding information to a current location and

the travel route of the mobile user; claim 25 is directed to receiving an information query

at a connection server from a search terminal, processing the information query by the

connection server, the information query containing information of the location and the

travel route of the user, and conducting the remote server search; claims 26-28 are

directed to receiving an information query by a search terminal, selecting a remote

server, receiving information retrieved by the selected remote server, and transmitting

the retrieved information to the search terminal; and claims 29 and 30 are directed to

forming an information query at a search terminal.

Since Applicant has received an action on the merits for the originally presented

invention, this invention has been constructively elected by original presentation for

prosecution on the merits. Accordingly, claims 25-30 have been withdrawn from

consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and

MPEP 821.03.

Claim Rejections - 35 USC § 103

6.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed
> or described as set forth in section 102 of this title, if the differences between the
> subject matter sought to be patented and the prior art are such that the subject
> matter as a whole would have been obvious at the time the invention was made
> to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was
> made.

7.   Claims 1-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over (US

5,956,716) Kenner et al, hereafter Kenner in view of (US 5,848,373) DeLorme et al,

hereafter DeLorme.

As per claim 1, Kenner teaches, Method for transmission of information to a

mobile user, said method comprising: sending an information query including at least

one criteria for information to be retrieved from a search terminal by using a browser

application program running in the search terminal (col. 1, lines 49-57, col. 2, lines 11-

22, and fig. 4 (82), receiving and processing the information query (col. 16, lines 14-48),

searching for information (col. 16, lines 17-32), transmitting the information to the

search terminal (col. 16, lines 24-30 and lines 42-47), receiving and displaying the

information to the user by the search terminal (col. 16, lines 34-38 and lines 39-42 and

fig. 3), and using one or several available servers for the information search, the

information search (col. 20, lines 25-38 and fig. 4 (68, 83, and 93). Kenner failed to

teach, sending at least one of the following information from the search terminal to at

least one of the one or several available servers for receiving and processing of the

information query: the current location, travel route of the mobile user; conducting the

information search at least partly on the basis of the information sent from the search

terminal, and routing the information query sent by the search terminal to at least one of

the one or several available servers suitable for the information search at least partly on

the basis of the information sent from the search terminal. DeLorme teaches, sending at

least one of the following information from the search terminal to at least one of the one

or several available servers for receiving and processing of the information query (col.

15, lines 5-20), the current location, travel route of the mobile user; conducting the

information search at least partly on the basis of the information sent from the search

terminal, and routing the information query sent by the search terminal to at least one of

the one or several available servers suitable for the information search at least partly on

the basis of the information sent from the search terminal (col. 15, lines 20-23 and col.

22, lines 50-60). DeLorme failed to teach a server. Kenner teaches a server in col. 20,

line 52 and fig. 4 (93). It would have been obvious to one having ordinary skill in the art at the time the invention was made to sending at least one of the following information from the search terminal to at least one of the one or several available servers for receiving and processing of the information query: the current location, travel route of the mobile user; conducting the information search at least partly on the basis of the information sent from the search terminal, and routing the information query sent by the search terminal to at least one of the one or several available servers suitable for the information search at least partly on the basis of the information sent from the search terminal and to modify in Kenner because such a modification would allow Kenner to have spatially related information that can be queried from databases relevant to the selected grid quadrangle.

As per claim 2, Kenner teaches, Method according to Claim 1, further comprising displaying the received information to the user by said browser application program (col. 20, lines 25-34 and col. 21, lines 26-29).

As per claim 3, Kenner teaches, Method according to Claim 1, further comprising, using at least two data transmission channels to transmit the information query from the search terminal (col. 18, lines 30-39).

As per claim 4, Kenner teaches, Method according to Claim 1, further comprising, including the information to be transmitted to the search terminal in a reply message as a response to the information query, and using at least two data transmission channels to transmit the reply message to the search terminal (col. 11, lines 52-64).

As per claim 5, Kenner teaches, method according to Claim 4, further comprising examining by the connection server the amount of information which will be needed to transmit the reply message to the search terminal, wherein the method further comprises selecting by the connection server the most appropriate data transmission method of said at least two data transmission channels to transmit the reply message to the search terminal (col. 5, lines 53-64, col. 6, lines 41-52, and fig. 4 (68)).

As per claim 6, Kenner teaches, Method according to Claim 1, further comprising transmitting at least part of the information between the search terminal and the means for receiving and processing of the information query by using short messages (col. 8, lines 52-65).

As per claim 7, Kenner teaches, Method according to Claim 6, further comprising displaying at least part of the received information to the user as short messages (col. 10, lines 58-64).

As per claim 8, Kenner teaches, Method according to Claim 1, further comprising forming a data call between the search terminal and the means for receiving and processing of the information query, and transmitting at least part of the information transferred by using said data call (col. 13, lines 26-34).

As per claim 9, Kenner teaches, Method according to Claim 1, further comprising storing user-specific information in at least one user profile data base and utilizing information in the user profile data base as an additional search criterion in the information search, if necessary (col. 25, lines 55-67 and col. 26, lines 1-7).

As per claim 10, Kenner teaches, Method according to Claim 9, further comprising storing user-specific information in the search terminal (col. 26, lines 34-49).

As per claim 11, Kenner teaches, Method according to Claim 1, further comprising storing service-specific information in at least one service data base, and retrieving information from service data bases (col. 4, lines 37-53).

As per claim 12, System for transmitting information to a mobile user, the system comprising: a search terminal comprising means for running a browser application program for sending an information query including at least one criteria for information to be retrieved (col. 4, lines 47-53), means for retrieving the information to the search terminal, and means for transmitting the information to the search terminal (1) col. 4, lines 7-13, fig. 4 (68)). This independent claim is rejected for the similar rationale as given above for claim 1.

As per claim 13, this dependent claim is rejected for the similar rationale as given above for claim 2.

As per claim 14, this dependent claim is rejected for the similar rationale as given above for claim 3.

As per claim 15, this dependent claim is rejected for the similar rationale as given above for claim 3.

As per claim 16, this dependent claim is rejected for the similar rationale as given above for claim 6.

As per claim 17, this dependent claim is rejected for the similar rationale as given above for claim 7.

As per claim 18, this dependent claim is rejected for the similar rationale as given above for claim 8.

As per claim 19, this dependent claim is rejected for the similar rationale as given above for claim 9.

As per claim 20, this dependent claim is rejected for the similar rationale as given for claim 10.

As per claim 21, Kenner teaches, a System according to Claim 12, further comprising at least one service data base for storing information on suppliers of the service, and wherein the means for retrieving information are adapted to also use information contained in the service data base in addition to the search criterion in the information retrieval, if necessary (col. 5, lines 17-38). This claim is also rejected for the similar rationale as given above for claim 11.

As per claim 22, Kenner teaches, System according to the Claim 12, further comprising at least one connection server and at least one remote server (Fig. 4 (83 & 93) means for setting up a data transmission connection between the search terminal and the connection server (col. 4, lines 54-64 and co. 6, lines 41-52), and means for setting up a connection between the connection server and the remote servers (col. 5, lines 56-64).

As per claim 23, Kenner failed to teach, System according to the Claim 12, further comprising wireless communication means for transmitting information at least partly in a wireless manner. DeLorme teaches, the transmission of information is at least partly in a wireless manner (col. 12, lines 40-62, fig, 2 and fig. 4 (45)). It would

have been obvious to one having ordinary skill in the art at the time the invention was made to have the transmission information at least partly in a wireless manner and to modify in Kenner because such a modification would allow Kenner to have a system with communication links that are wireless for the transmission and exchange of data for display or other use such as user location information as well as other spatially related data.

As per claim 24, Kenner failed to teach, means for running a browser application program, means for sending an information query, means for receiving information, and means for providing the received information to a mobile user of the mobile station in a system comprising: means for receiving and processing of the information query, means for retrieving information, means for transmitting the information to the mobile station, and at least one server for searching information, wherein the mobile station further comprises: means for adding at least one of the following information to the information query for retrieving information, the current location, travel route of the mobile user. DeLorme teaches, means for adding at least one of the following information to the information query for retrieving information, the current location, travel route of the mobile user (col. 2, lines 43-58). It would have been obvious to one having ordinary skill in the art at the time the invention was made to have a means for adding at least one of the following information to the information query for retrieving information, the current location, travel route of the mobile user and to combine Kenner's server with DeLorme's information on the current location and travel route of the mobile user because such a modification would allow Kenner to have a correlation and coordination

of the uniquely named grid quadrangle with the corresponding printed map and

additional information related to the selected grid quadrangle area.   This independent

claim is also rejected for the similar rationale as given above for claim 12.

Response to Arguments

8.   Applicant's arguments filed 09 September 2004 have been fully considered but

they are not persuasive. The Examiner considers these the Applicant's issues and .

arguments.

Issue no. 1: Applicant argues: Kenner does not teach using information of the

route or the location of the mobile user in the information retrieval has been considered

but is not persuasive. Response: In response to applicant's arguments, the using

information of the route or the location of the mobile user in the information retrieval

appears to be in Applicant's claim amendments. Therefore, the argument is considered

to be moot.

Issue no. 2: Applicant argues: DeLorme is silent on transmitting information of

the current location or the travel route of the user to a server for information retrieval

and using the transmitted information in routing the query message to a server suitable

for the information retrieval has been considered but is not persuasive. Response: The

rejection states that DeLorme does not teach a "server" and Kenner teaches a "server"

in col. 20, line 52 and fig. 4 (93).

Issue no. 3: Applicant argues: If the references are combined, the resulting

combination would still be missing the location and/or travel route features as claimed in

all independent claims has been considered but is not persuasive. Response: It is

interpreted that Delorme teaches the location and /or travel route features in col. 1, line

37-col. 3, line 53.

Conclusion: The Examiner is entitled to give limitations their broadest

reasonable interpretation in light of the Specification (see below):

2111   Claim Interpretation; Broadest Reasonable Interpretation [R-1]

>CLAIMS MUST BE GIVEN THEIR BROADEST REASONABLE INTERPRETATION

During patent examination, the pending claims must be "given the broadest reasonable interpretation consistent with the specification." Applicant always has the opportunity to amend the claims during prosecution and broad interpretation by the examiner reduces the possibility that the claim, once issued, will be interpreted more broadly than is justified. In re Prater, 162 USPQ 541,550-51 (CCPA 1969).<

Applicant is respectfully requested to point out and to claim in response to this

Office action in the claim language the inventive concept.

Conclusion

8.   The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

D'Amico et al (US 5,579,379) disclosed a controller that updates the subscriber's

home location registration number.

Emery et al (US 5,758,281) disclosed the AIN accesses the home location

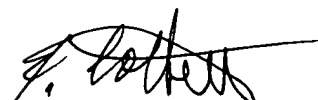register to determine the current location.

Inquiries

9.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ella Colbert whose telephone number is 703-308-7064.

The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Vincent Millin can be reached on 703-308-1038. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

E. Colbert
December 9, 2004